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Office Memorandum • UNITED STATES GOVERNMENT

то :	The Files - RD-107, Task Order 12 DATE: 30 December 1959	
FROM :		25 X 1
SUBJECT:	(Trip Report - Miniature IF Amplifiers, RD-101, TO, 12) 10 Dec	39)
	1. On 10 December 1959 a visit was made to to monitor the progress made in developing two miniature IF amplifiers; one using single conversion with a crystal filter as the bandpass determining element, and the second employing double conversion with a ceramic resonator as the bandpass determing element. Persons present for discussions were:	25X1 25X1
		25X1
	- OC-E/R+D-EP	25X1
	2. stated that	25X1
	has just finished making additional batches of ceramic resonators for use in the double conversion IF amplifier. These resonators were	25 X I
	turned over to section for final testing and evaluation	25X1
	and selectioned for optimum performance previous to assembly in this amplifier.	25 X 1
	3. The crystal filters being developed at	25X1
	will be delivered to	25X1
	around the first of the year. indicated that the construction	25 X 1
	techniques for fabricating these crystals is well understood and that	
	no difficulty is anticipated in meeting the specified requirements.	25X1
	Upon receipt of these crystals section will undertake completing the electronic circuitry for the crystal filter.	23/1
	Property of the control of the contr	25X1
	then introduced a	25 X 1
	who are with the	25 X 1
	are interested in a R+D program	25X1
	for developing ceramic filters which would range in frequency from 1 to 30 mc. Such materials as Zicronate would be investigated. The size of	
	such materials used would range from .001 inch thickness on down to .008	• 25X1
	inch depending upon the frequency. Two physical forms would be utilized:	23/1
	a disc whose thickness determines the electrical characteristics and	
	whose mode of vibration would be across the thickness, and a rectangular	
	form whose length determines the electrical characteristics with the mode of vibration longitudinal to the length. indicated that such	OEV4
	of vibration longitudinal to the length. indicated that such	25X1
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SUBJECT: Trip Report - Miniature IF Amplifiers

an effort would provide a filter having a lower insertion loss, be cheaper, and smaller in size than conventional filters. The writer informed that the Government, at this time, has no real interest in sponsoring such a development.

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25X1

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